



**AUSTRALIAN ENGINEERED
AIR COMPRESSORS**

OPERATIONAL MANUAL

Lincoln LV30 V-Twin High Volume 3HP 50L Air Compressor

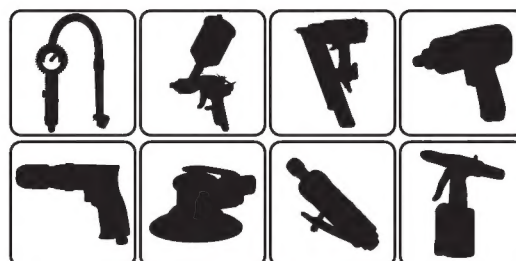
LV30

Protect yourself and others by observing all safety information, warnings, and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.

SPECIFICATIONS

| | |
|----------------|---------------------------|
| Model: | LV30 |
| Voltage: | 240V / 50Hz |
| Tank Capacity: | 50 Litre |
| Rated Speed: | 2850Rpm |
| Current: | 10A |
| Air Flow: | 350L/Min |
| Max. Pressure: | 8 Bar/116 Psi |
| Outlet: | 1 x 1/4" QC Nitto Coupler |
| Net Weight: | 42Kg |

APPLICATIONS:



GENERAL SAFETY INSTRUCTIONS

Before attempting to operate this compressor, the following basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. It is important to read the instruction manual to understand the application, limitations and potential hazards associated with any tool. They are designed for the safety of yourself and others, ensuring a long and trouble free service life from your machine.

Work area

Workbenches should be kept tidy because cluttered benches and work areas invite accidents. Floors should be kept clean and free from rubbish. Special care should be taken if the floor is slippery due to sawdust or wax.

Work environment

Keep the work area well lit. Do not use compressor in areas where there is a risk of explosion or fire from combustible materials, flammable liquids, e.g., paint, varnish, petrol etc or flammable gases and dust of an explosive nature.

Guard against electric shock

Do not expose your compressor to rain, or use in damp or wet locations.

Beware children and pets

Children and pets should be kept out of the work area.

Use the right tool

Select the right tool for the job. Do not use a tool for a job for which it was not designed. Do not force a small tool to do the job of a heavy-duty tool.

Safe clothing

Do not wear loose clothing, jewellery or anything that could get caught in moving machinery.

Hair

Long hair should be tied back or contained in a protective covering.

Eye protection

Always use protective safety goggles or safety glasses.

Ear protection

Ear protection is advised during periods of extended operation.

Footwear

Where there is a risk of heavy objects damaging feet or if there is a risk of slipping on wet or slippery floors suitable non-slip safety footwear should be worn.

Secure the work piece

Wherever possible secure the work piece using clamps or a vice. It is safer than using your hand and leaves both hands free to control the air tool.

Do not over-reach

Do not over-reach, keep proper footing and maintain your balance at all times.

Maintain tools with care

Keep cutting tools sharp and clean for better and safer performance. Follow the instructions for lubricating and changing accessories. Check the tool power cord periodically and if damaged have it replaced by an authorised service facility. Keep handles dry, clean and free from oil and grease. Ensure that ventilation slots are kept clean and free from dust at all times. Blocked ventilation slots can cause overheating and damage to the motor.

Stay alert

Watch what you are doing, use common sense, and do not operate the air tool when you are tired or have taken medication that causes drowsiness, consumed alcohol or drugs.

General warnings for compressors

- Do not attempt to modify the compressor in any way.
- The use of any tools or accessory other than those designed for use with compressed air could result in injury to the operator.

- The output pressure of the compressor should be adjusted to the design pressure of the air tool or accessory being used.
- Always check that the output of the compressor does not exceed the maximum pressure for any attached tool or accessory.
- Repairs should only be carried out by qualified persons using original spare parts. Failure to do so may result in considerable danger to the user.

Breathable air warning

This compressor/pump is not equipped for, and should not be used to supply breathing quality air for any application of air for human consumption.

Overload protection

This compressor is fitted with an overload protection device. In the event that the motor becomes too hot, a thermal protection device will cut the mains supply to the motor. When the motor temperature returns to normal the mains supply will be restored automatically.

Extension cords and reels

In general, it is not recommended to use an extension lead. A longer air line is recommended as voltage drop on extension leads may lead to motor damage and will void warranty. If an extension cord must be used, for lengths up to 5 metres, an approved 15 amp rated cord must be used.

Do not abuse the power cord

Never yank or pull on the power cord to disconnect it from the mains supply socket. Never carry or drag your compressor by its power cord. Keep the power cord away from heat, oil, solvents and sharp edges. If the power cord becomes damaged have it replaced by an authorized service facility.

Check damaged parts

Before using the compressor it should be carefully checked to determine that it will operate properly and perform its intended function. Check for the correct alignment of

moving parts ensuring they do not bind. Check for broken or missing parts and have them replaced or repaired at an authorised service centre. Check any other condition that may affect the operation of the compressor. A guard or any other part of the compressor that is damaged should be properly repaired or replaced by an authorised service centre.

Disconnect compressor

Ensure that the compressor is disconnected from the mains supply and the tank is empty when not in use, before servicing, lubricating or making adjustments to air lines, and when changing accessories such as blades, bits, nails and cutters on air tools.

Avoid unintentional starting

Ensure that the switch is in the OFF position before plugging the compressor into the mains supply

Turning the compressor ON and OFF

Use the red knob on top of the pressure switch to turn the unit on and off. Pull the knob up to turn the compressor on and push the knob in to turn it off. Turning the unit on and off from the mains supply only will result in damage to the motor and void warranty as the pressure switch has an additional function to purge the air trapped in the delivery pipe when the motor is turned off. This minimises the load on the motor when it is next started.

GENERAL VIEW AND MAIN COMPONENTS

1. Main Compressor
2. Pressure Switch
3. Outlet Valve
4. Pressure Regulator
5. Pressure Gauge
6. Non-Return Valve
7. Drain Valve
8. Wheel
9. Discharge Pipe
10. Air Tank
11. Safety Valve (back of pressure switch)
12. Fan Cover

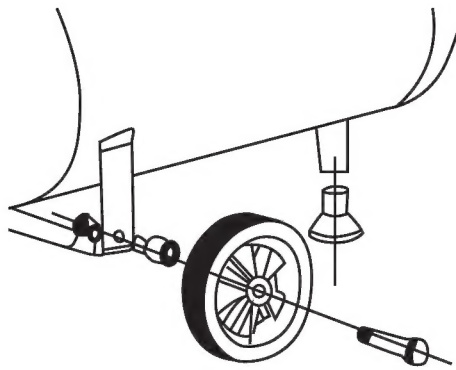


Note: Fittings may differ from those shown above.

ASSEMBLY

This air compressor requires some minor assembly before it can be used. Locate the accessory pack. It should contain:

1. Wheels and axle set
 2. Rubber stoppers
 3. Air Filters
 4. Oil Breather plug
 5. A bottle of oil
- Fit the wheels to the unit using the axle kit provided and insert the rubber stoppers into the spigots on the bottom of the tank.
 - Fit the air filters to cylinder heads of the compressor.
 - Locate the plastic dust plug in the oil breather hole and remove it to expose the oil breather hole.



Oil breather hole

Oil Warning: This unit is shipped with oil in the compressor pump. Oil must be added to the unit prior to operating.

- Usually check the oil level in the pump. Please fill the oil from the oil breather hole until the oil reaches the red mark on the sight glass
- Check that the small hole in the top of the breather pipe is clear and then insert it into the oil filler hole.

NOTE: The oil must be changed after the first 10 hrs of operation then every 20 hrs thereafter.

Recommend compressor oil: Use SAE30 for temperatures over 10° and use SAE10 below 10°



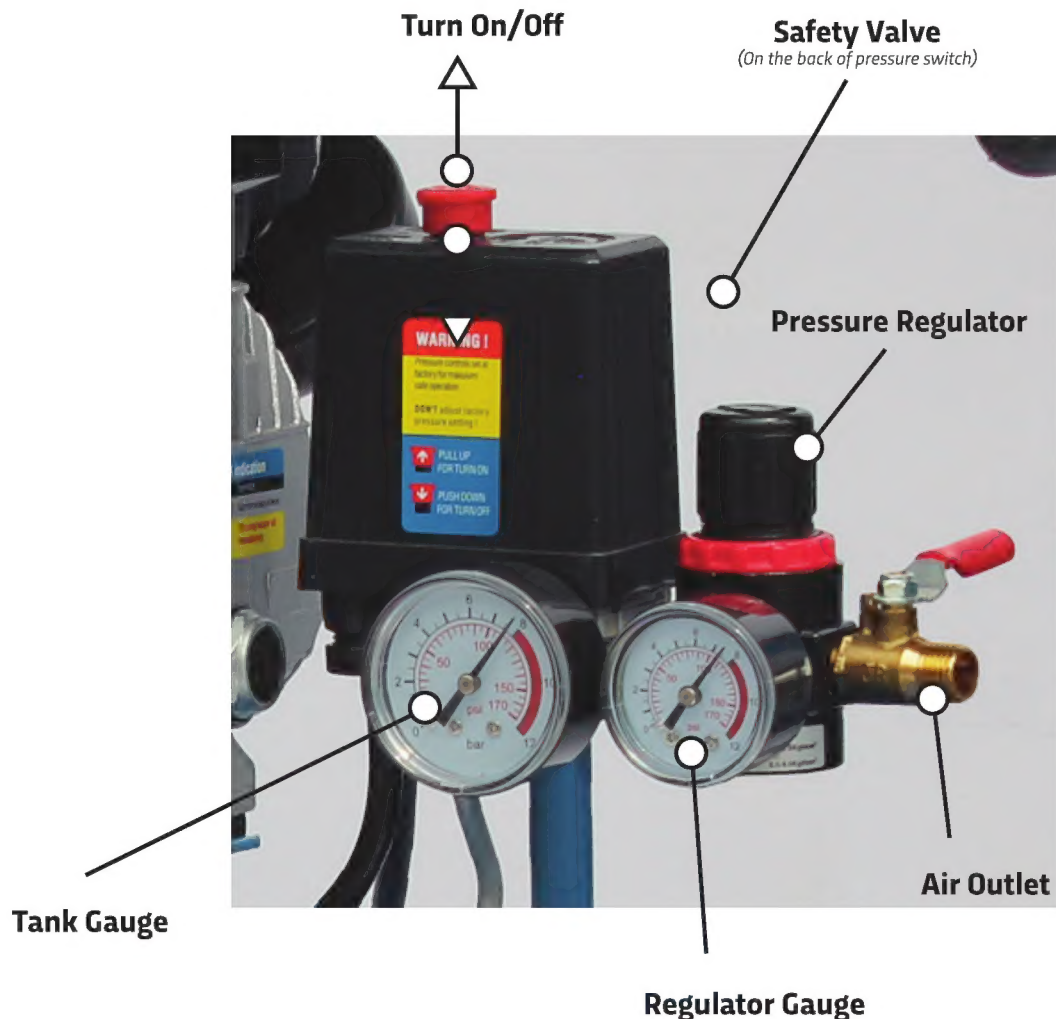
Oil breather hole

INITIAL STARTUP

- Ensure the unit is stable in a well-ventilated dry position.
- Ensure that the drain valve is closed and all air outlets are closed.
- Connect the power lead to the mains.
- Start the compressor by pulling on the red knob.
- Check for air leaks

NOTE: Output fittings may differ from those shown.

WARNING: Use the red knob to turn the unit on and off, not the mains switch. Turning the unit on and off from the mains only will result in damage to the motor



OPERATION

The pressure in the tank is controlled by the action of the pressure switch located under the pressure switch cover

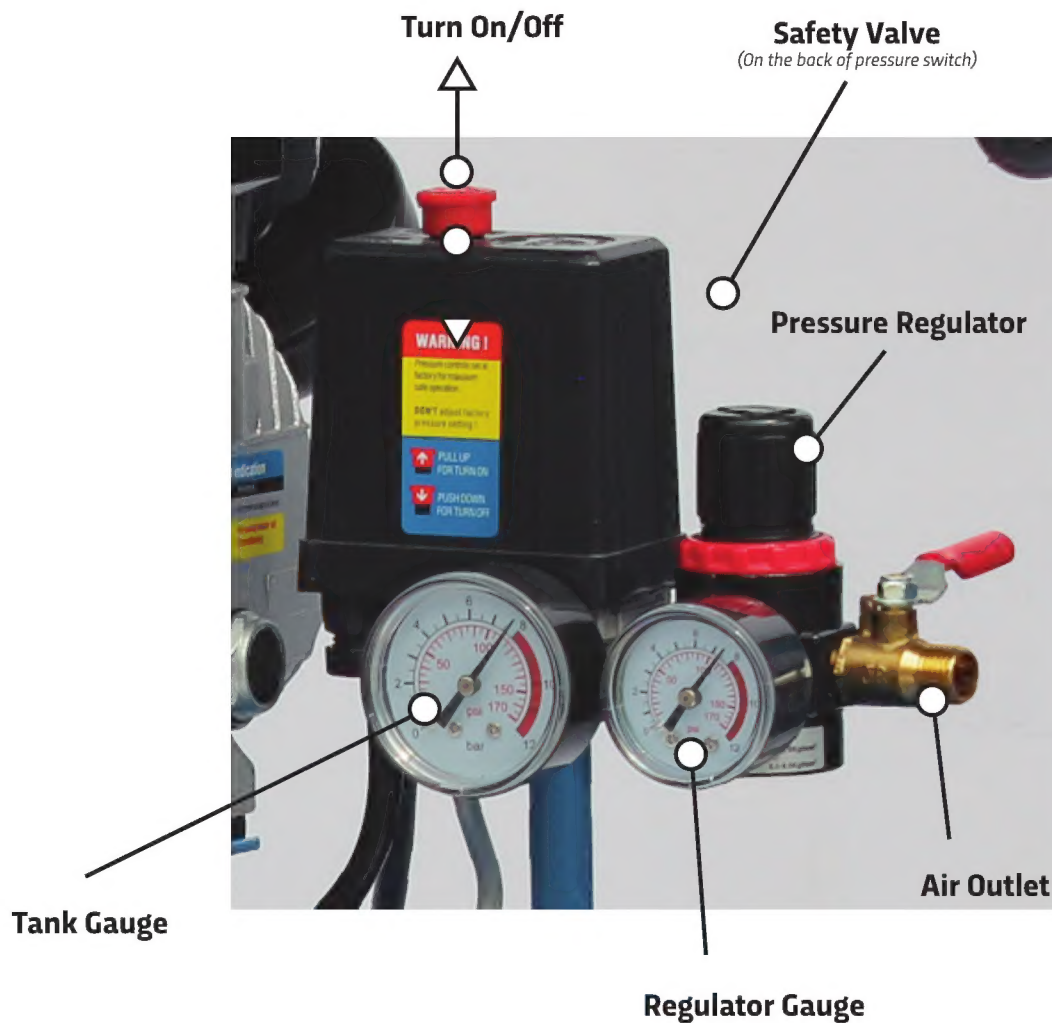
When the set maximum pressure is reached the pressure switch activates and the motor is turned off. The pressure will then decrease as the air is used until the set minimum is reached after which the pressure switch turns the motor on again.

The operator of the compressor should be well aware that during use of the compressor the motor will cycle (start and stop) under the influence of the rising or falling pressure in the tank and the motor will start without any warning.

The maximum and minimum pressures are factory set and should not be altered.

You can utilise either the direct outlet and/or the regulated outlet. The pressure of the regulated outlet can be changed by turning the control knob. Rotate the knob clockwise to increase pressure and anti-clockwise to decrease

NOTE: Output fittings may differ from those shown



MAINTENANCE

WARNING: Before maintenance operation, stop the air compressor, disconnect the unit from the mains supply and discharge all air in the air tank.

Daily

1. Check oil level before each use.
2. Drain the condensation from the air receiver.
3. Check for air leaks.

Weekly

1. Remove air filter element and clean or replace as required.

Monthly

1. Inspect non-return valve (clean or replace as required)

CAUTION: ensure that air the tank is empty for this operation.

2. Manually test the safety valve by pulling the ring.

Quarterly

1. Change Oil
2. Tighten cylinder head bolts.
3. Clean and check valve assembly, replace gaskets/ valves if worn or damaged.

Recommend compressor oil use SAE30 for temperatures over 10° and use SAE10 below 10°.

TROUBLES AND REMEDIES

| Trouble | Possible causes | Remedies |
|---|--|---|
| Motor unable to run or running slow | <input type="checkbox"/> Fault in line, or voltage insufficient <input type="checkbox"/> Power wire too thin or too long <input type="checkbox"/> Fault in pressure switch <input type="checkbox"/> Fault in motor <input type="checkbox"/> Sticking of main compressor <input type="checkbox"/> The inner thermal protector on motor cut off | <input type="checkbox"/> Check the line <input type="checkbox"/> Replace the wire <input type="checkbox"/> Repair or replace <input type="checkbox"/> Repair or replace <input type="checkbox"/> Check and repair <input type="checkbox"/> Compressor works too hard, turn off the power and wait for 10-15minutes to cool down motor and restart. |
| Sticking of main compressor | <input type="checkbox"/> Moving parts burnt due to insufficient oil <input type="checkbox"/> Moving parts damaged, or stuck by foreign body | Check crankshaft, bearing, connecting rod, piston, piston ring, etc. and replace if necessary |
| Excessive vibration or abnormal noise | <input type="checkbox"/> Connecting part loose <input type="checkbox"/> Foreign body got into main compressor <input type="checkbox"/> Piston knocking valve seat <input type="checkbox"/> Moving parts seriously worn | <input type="checkbox"/> Check and retighten <input type="checkbox"/> Check and clean away <input type="checkbox"/> Replace with thicker paper gasket <input type="checkbox"/> Repair or replace |
| Pressure insufficient or discharge capacity decreased | <input type="checkbox"/> Motor running too slow <input type="checkbox"/> Air filter choked up <input type="checkbox"/> Leakage of safety valve <input type="checkbox"/> Leakage of discharge pipe <input type="checkbox"/> Sealing gasket damaged <input type="checkbox"/> Valve plate damaged, carbon build up or stuck <input type="checkbox"/> Piston ring and cylinder worn or damaged | <input type="checkbox"/> Check and remedy <input type="checkbox"/> Clean or replace the cartridge <input type="checkbox"/> Check and adjust <input type="checkbox"/> Check and repair <input type="checkbox"/> Check and replace <input type="checkbox"/> Replace and clean <input type="checkbox"/> Repair or replace |
| Excessive oil consumption | <input type="checkbox"/> Oil level too high <input type="checkbox"/> Breath pipe choked up <input type="checkbox"/> Piston ring and cylinder worn or damaged | <input type="checkbox"/> Keep the level within set range <input type="checkbox"/> Check and clean <input type="checkbox"/> Repair or replace |

WARRANTY

The Supplier warrants to the **original purchaser only**; this power tool to be free from defects in material and workmanship. Subject to certain exceptions, the Supplier will repair or replace any part on an electric power tool, which after examination, is determined to be defective in material or workmanship for a period of one (1) year after the date of purchase unless otherwise noted. Return of the power tool to the Retailer, is required together with the proof of purchase should be included with the returned product. This warranty does not apply to damage that is determined to be from repairs made or attempted by anyone other than authorized agents, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents. This warranty does not include items considered as consumables.

Statutory Rights

This warranty is in addition to and in no way affects your statutory rights.